

# DataRay Inc. Correction Note

## No P7/P8 Head

Advancing the Technology  
of Laser Beam Analysis

**Applies to:** Beamscope-P7 or P8 heads with PCI card or P8-IF (USB 2.0) interface  
Software Ver. 6.00S8q3 or earlier, running under Windows Vista or XP with SP2 or higher.  
Solved by software Ver. 6.00S8q4 or higher.


**Problem Solved: No P7/P8 head.** Sometimes the head makes the self-referencing start-up noise, will move to **Aim** and **Slits** position, and will perform a **Search**, but when you press **Go** nothing happens.

**No P7/P8 head**

The problem is caused by a read failure on the EEPROM in the BeamScope head. DataRay has currently no idea why this sometimes occurs. On the same Windows version, with the same (earlier) software version, we have seen BeamScope heads that are found just fine on one PC but are not found on another PC.

We solve this problem by creating a 'phantom' EEPROM in the **c:\Program Files\DataRay** directory which is read when the head EEPROM read fails. The first time, you have to select this 'phantom' option and configure it for any non-default settings.

### Solution:

- Download the latest version of the software from:  
<http://www.dataray.com/files/iDataRay.exe>
- In the **Setup** pull-down menu, select **Device EEPROM programming** to open the box right.
- At the bottom, select **Allow phantom head**.
- If the slits/pinhole are not the default XY 5 µm slits in the standard orientation, set the configuration in the box per the instructions in Section 5.2 of the User Manual, currently pages 5-6 and 5-7. [Section # and page #'s may change in future manual editions.]
- Click **OK**. The **Ready** box will include a **(p)** when this EEPROM is being used. 
- The Phantom EEPROM is saved to your PC and will be found in the future, just as the actual EEPROM should be.
- If you move the system to another PC, and get the same error message, you will need to recreate this Phantom EEPROM on the new PC.
- Still have problems? Contact DataRay support at [support@dataray.com](mailto:support@dataray.com) or 303-543-8235 Mountain Time.

**BeamScope Head Setup**

Detector Type

Silicon  InGass  II-VI  
 Germanium  InAs  Other

Gain Method

Default = 0

Step Size in Microns

Default = 0.187 µm

Maximum Span in Millimeters





Default = 34.0 mm

Maximum motor speed = 100 %

Multiplication factors for magnification or correction

Slit 1  Slit 2

Select Slit Type and Width(s)

First Slit Width =

Second Slit Width =

Setup slit orientation

Allow phantom head

OK Firmware up to date ? Yes Cancel